TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-06-09-01** **Date: 10-06-2017**
Customer	:	Assistant Executive Engineer, (Project Division) Yelahanka Zone, BBMP, Bangalore.
Address	:	(Project Division) Yelahanka Zone, BBMP, Bangalore.
Project Name	:	Providing open gym equipment of CHS 707 Park at 2nd, 3rd main near Government school ward no.03
Agency	:	Technical Mnager (west), KRIDL, Bangalore.
Customer's Reference	:	EE(Project)YNK ZONE/WO/03/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-06-17
Sample ID No	:	2017-06-09-01-01
Sample Type	:	ACC 53 grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	09-06-17

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.60	–
2	Finess by Air permeablity method (m^2/kg, Min)	285.1	225m^2/kg, Min
3	Density (gm/cc)	3.21	–
4	Standard Consistency (%)	27.5%	Not specified
5	Initial Setting time	145 minutes	Not less than 30 minutes
6	Final Setting time	240 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1mm	Not more than 10 mm

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Prepared by
Harshitha

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-06-09-01** **Date: 07-07-2017**
Customer	:	Assistant Executive Engineer, (Project Division) Yelahanka Zone, BBMP, Bangalore.
Address	:	(Project Division) Yelahanka Zone, BBMP, Bangalore.
Project Name	:	Providing open gym equipment of CHS 707 Park at 2nd, 3rd main near Government school ward no.03
Agency	:	Technical Mnager (west), KRIDL, Bangalore.
Customer's Reference	:	EE(Project)YNK ZONE/WO/03/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-06-17
Sample ID No	:	2017-06-09-01-01
Sample Type	:	ACC 53 grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	09-06-17

Compressive Strength			
Sl.No.	**Physical properties**	**Results**	**Requirement as per IS 12269: 2013**
1	3 Days	27.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	53.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-06-12-08** **Date: 15-06-2017**
Customer	:	Assistant Executive Engineer, (Project Division) Yelahanka Zone, BBMP, Bangalore.
Address	:	(Project Division) Yelahanka Zone, BBMP, Bangalore.
Project Name	:	Providing open gym equipment of CHS 707 Park at 2nd, 3rd main near Government school ward no.03
Agency	:	Technical Manager (west), KRIDL, Bangalore.
Customer Reference	:	EE(Project)YNK ZONE/WO/03/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-06-17
Sample ID No	:	2017-06-12-08-02(a)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	12-06-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	256	256	5.1	94.9	90-100
3	10 mm	2487	2743	54.9	45.1	25-55
4	4.75 mm	2100	4843	96.9	3.1	0-10
5	Pan	157	5000	100	0	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-06-12-08** **Date: 15-06-2017**

Sample ID No : 2017-06-12-08-02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.1	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.3	
3	Specific Gravity	2.69	_
4	Bulk Density(Loose) (Kg/l)	1.51	_
5	Bulk Density(Compacted) (Kg/l)	1.57	_
6	Water Absorption(%)	0.18	_
7	Aggregate crushing Value(%)	22.4	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	21.6	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-06-12-08** **Date: 15-06-2017**
Customer	:	Assistant Executive Engineer, (Project Division) Yelahanka Zone, BBMP, Bangalore.
Address	:	(Project Division) Yelahanka Zone, BBMP, Bangalore.
Project Name	:	Providing open gym equipment of CHS 707 Park at 2nd, 3rd main near Government school ward no.03
Agency	:	Technical Manager (west), KRIDL, Bangalore.
Customer's Reference	:	EE(Project)YNK ZONE/WO/03/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	12-06-17
Sample ID No	:	2017-06-12-08-02(b)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	12-06-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	321	321	2.1	97.9	90-100
3	20 mm	5426	5747	38.3	61.7	30-70
4	10 mm	4432	10179	67.9	32.1	10-35
5	4.75 mm	4333	14512	96.7	3.3	0-5
6	Pan	488	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-06-12-08** **Date: 15-06-2017**

Sample ID No : 2017-06-12-08-02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	**12.4**	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	**11.6**	
3	Specific Gravity	**2.67**	_
4	Bulk Density(Loose) (Kg/l)	**1.49**	_
5	Bulk Density(Compacted) (Kg/l)	**1.53**	_
6	Water Absorption(%)	**0.26**	_

Note:

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Prepared by
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Quality Manager

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-06-12-08** **Date: 15-06-17**

Customer : Assistant Executive Engineer, (Project Division) Yelahanka Zone, BBMP, Bangalore.

Address : (Project Division) Yelahanka Zone, BBMP, Bangalore.

Project Name : Providing open gym equipment of CHS 707 Park at 2nd, 3rd main near Government school ward no.03

Agency : Technical Mnager (west), KRIDL, Bangalore.

Customer's Reference : EE(Project)YNK ZONE/WO/03/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 12-06-17

Sample ID No : 2017-06-12-08-03

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 12-06-17

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0	100	100	100	100	100
2	4.75 mm	81	81	8.1	91.9	90-100	90-100	90-100	95-100
3	2.36 mm	133	214	21.4	78.6	60-95	75-100	85-100	95-100
4	1.18 mm	159	373	37.3	62.7	30-70	55-90	75-100	90-100
5	600 micron	166	539	53.9	46.1	15-34	35-59	60-79	80-100
6	300 micron	189	728	72.8	27.2	5-20	8-30	12-40	15-50
7	150 micron	183	911	91.1	8.9	0-10	0-10	0-10	0-15
8	Pan	89	1000	100	0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-06-12-08** **Date: 15-06-17**

Sample ID No : 2017-06-12-08-03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	2.15	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	4.8	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Harshitha

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CEMENT CONCRETE FLOORING TILES

Lab ID	:	**CP-2017-06-13-01** **Date: 16-06-17**
Customer	:	Assistant Executive Engineer, (Project Division) Yelahanka Zone, BBMP, Bangalore.
Address	:	(Project Division) Yelahanka Zone, BBMP, Bangalore.
Project Name	:	Providing open gym equipment of CHS 707 Park at 2nd, 3rd main near Government school ward no.03
Agency	:	Technical Mnager (west), KRIDL, Bangalore.
Customer Reference	:	EE(Project)YNK ZONE/WO/03/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-06-17
Sample ID No	:	2017-06-13-01-02
Sample Type/ Size	:	Pre-Polished Designer Cement Concrete Tiles
Reference to BIS codes	:	IS 1237:2012
Date of test	:	13-06-17

1.Wet Transverse Strength

Sl.No.	Dimension (mm)			Wet Transverse Strength	Average	Requirement as per IS:1237-2012
	L	B	T	(N/mm^2)	(N/mm^2)	
1	401	400	25.08	7.84	8.12	The average wet transverse strength shall not be less than $3N/mm^2$.
2	400	401	25.04	8.32		
3	399	401	25.10	8.27		
4	400	399	25.07	8.18		
5	399	400	25.17	7.79		
6	398	400	25.13	8.33		

2. Water Absorption

Sl.No.	Dimension (mm)			Water Absorption	Average	Requirement as per IS:1237-2012
	L	B	T	(%)	(%)	
1	400	401	25.02	3.92	3.19	The average percentage of water absorption shall not exceed 10.
2	401	400	25.06	2.87		
3	400	399	25.01	3.06		
4	399	401	25.04	3.19		
5	400	399	25.08	2.86		
6	402	399	25.03	3.26		

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TEST REPORT OF CEMENT CONCRETE KERB STONE

Lab ID	:	**CP-2017-06-13-01** **Date: 16-06-17**
Customer	:	Assistant Executive Engineer, (Project Division) Yelahanka Zone, BBMP, Bangalore.
Address	:	(Project Division) Yelahanka Zone, BBMP, Bangalore.
Project Name	:	Providing open gym equipment of CHS 707 Park at 2nd, 3rd main near Government school ward no.03
Agency	:	Technical Mnager (west), KRIDL, Bangalore.
Customer's Reference	:	EE(Project)YNK ZONE/WO/03/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-06-17
Sample ID No	:	2017-06-13-01-01
Sample Type /Size	:	CC Kerb Stone/ 450*165*400mm
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	13/06/2017

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm2)	(N/mm2)	(N/mm2)
1	A	100.03	165.50	2.870	7857	146.1	18.6	17.3	21.6
2	B	100.01	165.49	2.847	7854	148.2	18.9	18.9	23.6
3	C	100.01	165.47	2.811	7854	142.1	18.1	18.1	22.6

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2017-06-27-03** **Date: 28-06-17**
Customer	:	Assistant Executive Engineer, (Project Division) Yelahanka Zone, BBMP, Bangalore.
Address	:	(Project Division) Yelahanka Zone, BBMP, Bangalore.
Project Name	:	Providing open gym equipment of CHS 707 Park at 2nd, 3rd main near Government school ward no.03
Agency	:	Technical Mnager (west), KRIDL, Bangalore.
Customer's Reference	:	EE(Project)YNK ZONE/WO/03/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-06-17
Sample ID No	:	2017-06-27-03-01
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	28/06/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	21/06/2017	28/06/2017	150.22 X 150.20 X 150.21	22563	8.343	388.1	17.2	17.4
2	PCC	M20	21/06/2017	28/06/2017	150.20 X 150.28 X 150.29	22572	8.435	404.0	17.9	
3	PCC	M20	21/06/2017	28/06/2017	150.19 X 150.18 X 150.23	22556	8.278	385.7	17.1	

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